

**NETWORK-ASSISTED GLOBAL POSITIONING SYSTEMS, METHODS
AND TERMINALS INCLUDING DOPPLER SHIFT AND CODE PHASE
ESTIMATES**

Abstract of the Disclosure

A mobile terminal is configured to receive wireless communications including GPS data from a terrestrial and/or satellite wireless network, and to perform pseudo-range measurements using the GPS data that is received. The mobile terminal may be
5 configured to perform pseudo-range measurements by receiving GPS
coarse/acquisition (C/A) signals from GPS satellites, estimating Doppler shifts in the
received GPS C/A signals, and estimating received code phases of the GPS C/A
signals using the Doppler shifts that are estimated. The estimated code phases and/or
the estimated Doppler shifts of the GPS C/A signals can provide the pseudo-range
10 measurements. By removing the Doppler shift from the received signal samples prior
to performing the code phase measurement, reduced computational complexity and/or
processing time may be obtained.